

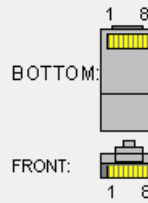
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[8 pin RJ45 \(8P8C\) female connector](#)
at the hub

5

Power over Ethernet is a technology that allows IP telephones, wireless LAN Access Points, Security network cameras and other IP-based terminals to receive power, in parallel to data, over the existing CAT-5 Ethernet infrastructure without the need to make any modifications in it. Described by IEEE 802.3af standard.



[8 pin RJ45 \(8P8C\) male connector](#)
at the cable

PoE integrates data and power on the same wires, it keeps the structured cabling safe and does not interfere with concurrent network operation. PoE delivers 48v of DC power over unshielded twisted-pair wiring for terminals consuming less than 13 watts of power.

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IEEE 802.3af standard POE pinout:

Pin	Alternative A	Alternative B
1	Vport Positive	
2	Vport Positive	
3	Vport Negative	
4		Vport Positive
5		Vport Positive
6	Vport Negative	
7		Vport Negative
8		Vport Negative

POE pinouts from different manufacturers



STANDARD	SOURCE									LOAD		REMARKS
	Ethernet RJ-45 connector pin number									Load Voltage	DC Load Connector	
	Source Voltage	1	2	3	4	5	6	7	8			
IEEE 802.3af using data pairs	48 V DC, protected	RX, DC+	RX, DC+	TX, DC-	spare	spare	TX, DC-	spare	spare	(embedded)		Industry Standard for active PoE
IEEE 802.3af using spare pairs	48 V DC, protected	RX	RX	TX	DC+	DC+	TX	DC-	DC-			Industry Standard for passive PoE
Intel, Symbol, Orinoco	Usually 12 or 24 V DC	RX	RX	TX	DC+	DC+	TX	DC-	DC-	(embedded)		Most Brands of PoE
Cisco (OLD old standard)	48 V DC	RX	RX	TX	DC-	DC-	TX	DC+	DC+	(embedded)		Older Cisco polarity is REVERSED
Cisco (NEW old standard)	48 V DC	RX	RX	TX	DC+	DC+	TX	DC-	DC-	(embedded)		New Cisco is IEEE compliant
Cisco (very unusual)	28 V DC	DC+	DC-	TX	n.c.	n.c.	TX	RX	RX	(embedded)		Seen on Cisco 7936 conference station
D-Link (Adapter)	48 V DC	RX	RX	TX	DC+	DC+	TX	DC-	DC-	5VDC@2.5A or 12VDC@1A	DC coaxial 5.5/2.5mm	D-Link PoE Adapter for non-PoE products.
Apple Macintosh AirPort PoE, Extreme	48 V DC	RX	RX	TX	DC??	DC??	TX	DC??	DC??	Converted to ???	DC coaxial (???)	Mac Polarity Unknown
HyperLink	Many DC Voltages Available	RX	RX	TX	DC+	DC+	TX	DC-	DC-	same as input	DC coaxial and others available	Variety of Options Available to Fit Most Brands of PoE
NYC Wireless Roll Your Own	12 or 24 or 48 V DC	RX	RX	TX	DC+	DC+	TX	DC-	DC-	same as input	DC coaxial or as reqd	New York City Wireless PoE

3Com AirConnect	24 V DC	RX	RX	TX	spare	spare	TX	DC+	DC-			3Com AirConnect wireless access points
Alvarion VL	55 Vdc	RX	RX	TX	DC+	DC-	TX	DC+	DC-			

PoE - powered devices should obey following specifications:

Parameter	Min	Max
Signature Resistance, KOhm	23.75	26.25
Startup Time (till I>10mA), ms		300
Power Consumption, W		12.95
Operating Input Voltage Range, V	36	57
Must Turn on Voltage, V	44	
Must Turn off Voltage, V	30 V	
Input Current (@36Vdc), mA	10	350
Input Current, Peak, mA		400

Maximum length of the cable PoE UTP 5cat.
 Input Voltage 9 V: < 30 m
 Input Voltage 12 V: < 60 m
 Input Voltage 24 V and more answers the quality IEEE 802.3af standard.

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Source(s) of this and additional information: "All You Need To Know About Power over Ethernet (PoE) and the IEEE 802.3af Standard" , [altair.org](#)
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